

t4_waybel_7
(TMa6tm4pxiso1dfbup4hxFGjpxXVgxyr52g)

October 27, 2020

Let $v2_struct.0 : \iota \Rightarrow o$ be given. Let $v3_orders.2 : \iota \Rightarrow o$ be given. Let $v4_orders.2 : \iota \Rightarrow o$ be given. Let $v5_orders.2 : \iota \Rightarrow o$ be given. Let $v1_yellow.0 : \iota \Rightarrow o$ be given. Let $l1_orders.2 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $v2_waybel.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v13_waybel.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $v1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_yellow.0 : \iota \Rightarrow \iota$ be given. Let $r1_orders.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct.0 X0) \wedge ((v5_orders.2 X0) \wedge ((v1_yellow.0 X0) \wedge (l1_orders.2 X0)))) \Rightarrow (\forall X1.(m1_subset.1 X1 (u1_struct.0 X0)) \Rightarrow (r1_orders.2 X0 (k3_yellow.0 X0) X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1.(m1_subset.1 X0 X1) \Rightarrow ((v1_xboole.0 X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1.(m1_subset.1 X1 (k1_zfmisc.1 X0)) \Rightarrow ((\forall X2.(m1_subset.1 X2 X0) \Rightarrow (X2 \in X1)) \Rightarrow (X0 = X1)) \quad (3)$$

Assume the following.

$$\forall X0. \exists X1.(m1_subset.1 X1 (k1_zfmisc.1 X0)) \wedge (\neg v1_subset.1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(l1_orders.2 X0) \Rightarrow (m1_subset.1 (k3_yellow.0 X0) (u1_struct.0 X0)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1.(m1_subset.1 X1 (k1_zfmisc.1 X0)) \Rightarrow ((v1_subset.1 X1 X0) \Leftrightarrow (X1 \neq X0)) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (u1_struct_0 X0))) \Rightarrow ((v13_waybel_0 X1 X0) \Leftrightarrow (\forall X2.(m1_subset_1 \\ X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ X0)) \Rightarrow (((X2 \in X1) \wedge (r1_orders_2 X0 X2 X3)) \Rightarrow (X3 \in X1)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ X0) \wedge ((v5_orders_2 X0) \wedge ((v1_yellow_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\ (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v2_waybel_0 X1 X0) \wedge ((v13_waybel_0 \\ X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow ((\\ v1_subset_1 X1 (u1_struct_0 X0)) \Leftrightarrow (\neg k3_yellow_0 X0 \in X1))) \end{aligned}$$